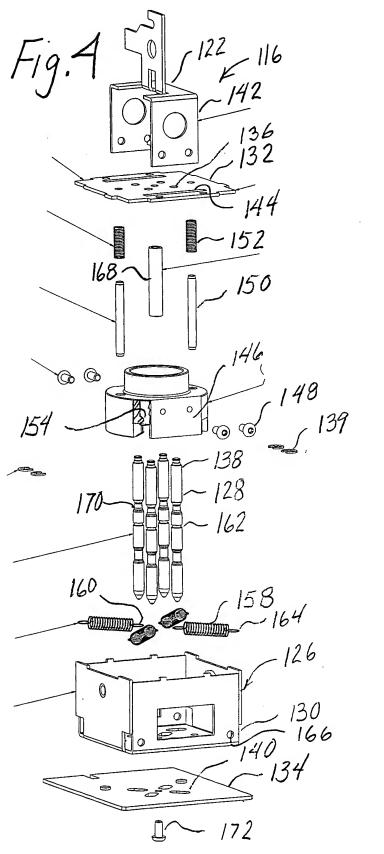
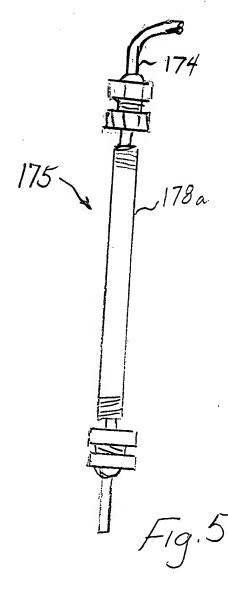
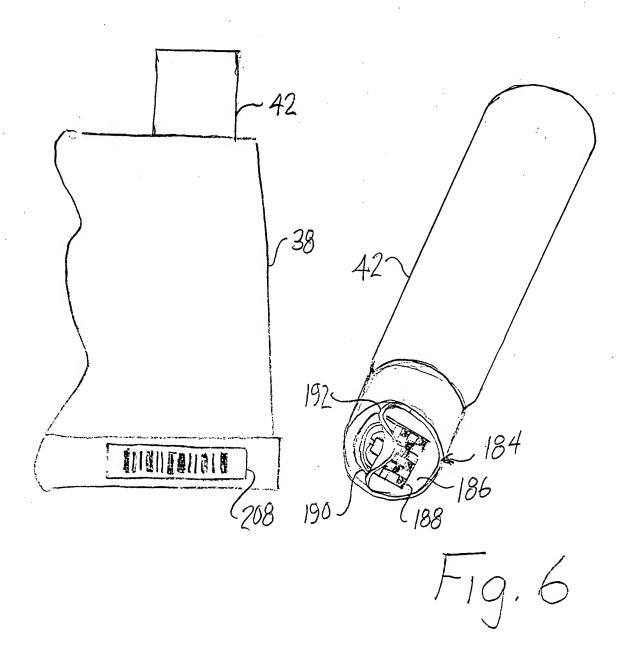


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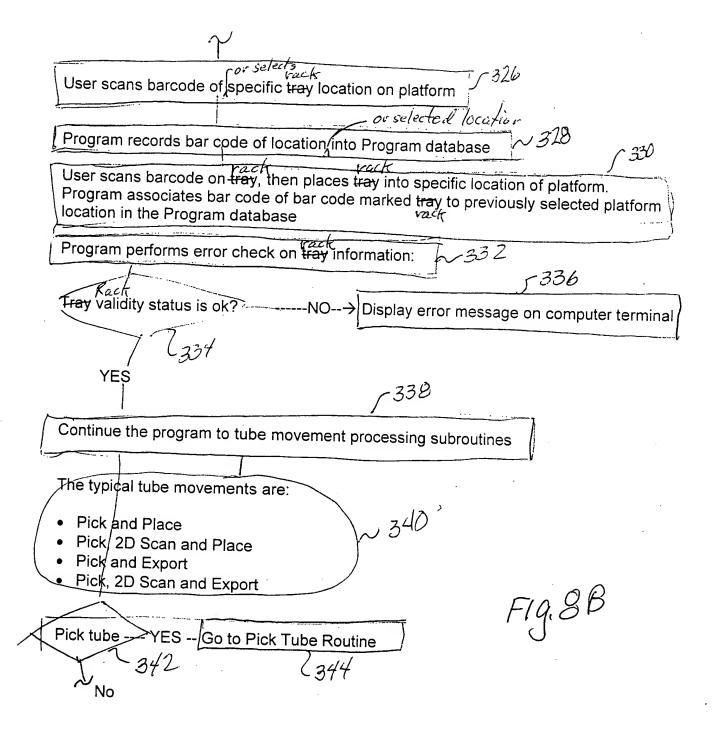


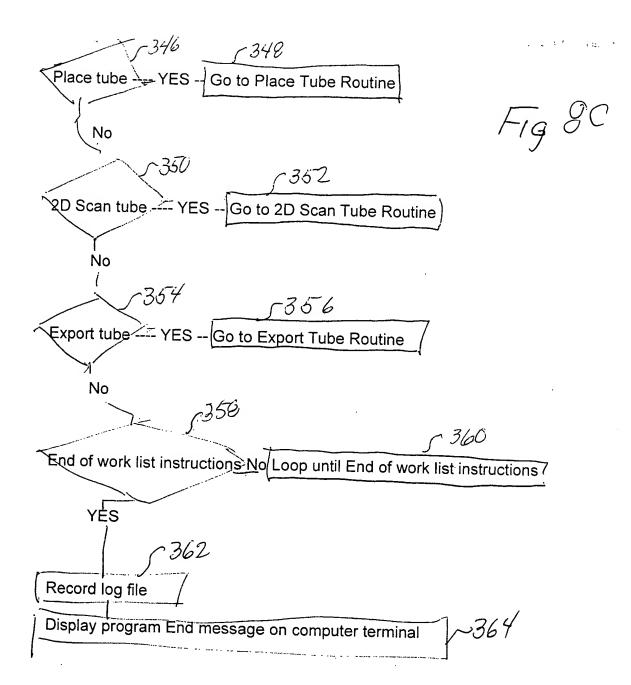




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		er ^{a a}	ें के शं		
	300				
	START			Fig	. 8A
	Initialize Tube Handler F	Robot and host comp	outer		
•	Initialize Program	7~304	20/		
	Checks hardware status	of Tube Handler Ro	bot 306	1	
			3/0		
<	Hardware status ok?	NO→ Displa	y error message on	computer	terminal
	1308				,
	// YES				
		(3/2	2		
	Program prompts user fo	or Work List		314	
	Work List is selected by t	user and loaded into			
-			·		
	Work List validity status is	s ok=>NO→ D	isplay error msg. or	n computer	terminal
	YES 23/6		2318		
				r320)
	Program prompts user to load trays of tubes onto the Tube Handler Robot's platform				
	User physically loads bar platform				
	Tray loading procedure:	7- 224			322
4	L	<i>₹ ~ 3</i> ,47			
	*	-			*
			·		





Pick tube subroutine start \ \(\sigma \frac{366}{100} \) [Tube Handler moves pick head to source tube location on Work List \ Pick head picks tube from tray \ \sigma \frac{370}{370}
Tube movement successful ——NO Display error message on computer terminal
372
Yes (374 Fig. 81)
Pick tube subroutine end
-378
Place tube subroutine start Fig 8 E
Pick head detects tubeNO Display error message on computer terminal
7 380
Yes (384)
Tube Handler moves pick head to target tube location on Work List Pick head places tube into tray 386
Tube movement successfulNO> Display error message on computer terminal
380
Yes
Place tube subroutine end ~390

,

	2D scan tube subroutine start 394 Fig 8F
	Pick head detects tubeNO Display error message on computer terminal
	396 398
	5 400
	Tube Handler moves pick head to camera or scanner module location Camera or scanner is activated to capture image of 2D code marked on tube
	Tube movement successfulNO→ Display error message on computer terminal
	YES (404)
	2D scan tube subroutine end 408
	Export tube subroutine start Fig. 86 414 Pick head detects tube —NO Display error message on computer terminal
	Yes
	Tube Handler moves picks head to export location Tube is place into export module Export location module transports tube from platform of current tube handler robot to
	external tube handler robot
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